

PATENT ABSTRACTS OF JAPAN

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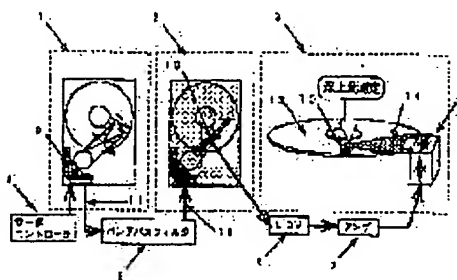
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(54) METHOD AND EQUIPMENT FOR MEASURING BEHAVIOR OF MAGNETIC HEAD

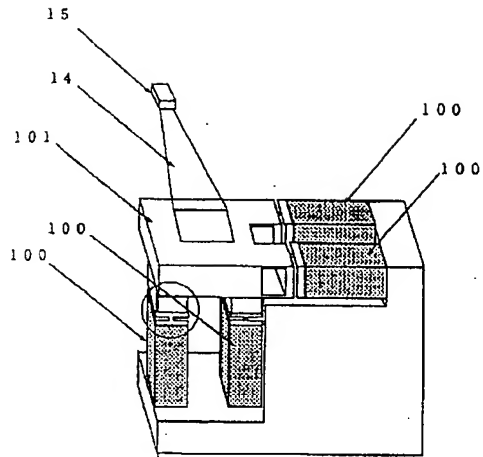
(57)Abstract:

PURPOSE: To reproduce the vibration of an access mechanism with fidelity by a floating amount measuring part and to measure a dynamic behavior of a magnetic head with high accuracy, by measuring the vibration of the fore end of an arm of the access mechanism of a magnetic disk by a noncontact sensor.

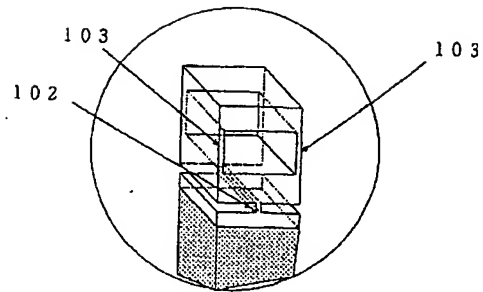
CONSTITUTION: In a device 1, a seek operation is conducted according to a seek pattern from a servo controller 4 and a drive current 11 of an actuator 9 at that time is measured. Besides, the vibration of the fore end part 10 of an arm is measured by a laser Doppler vibration meter 6 of a noncontact sensor, and torsional vibrations of the arm in the vertical direction and the seek direction and vibration in the rotational direction are measured respectively. A suspension 14 and a slider 15 are provided in a floating amount measuring part 3, while an exciting device 8 is disposed at the base part of the suspension 14, and the vibration of the fore end part 10 of the arm measured by the vibration meter 6 is reproduced by a piezoactuator exciting device. Fluctuation of the floating amount of the slider 15 at that time is calculated by conversion from the intensity of interference light generated in a gap between a glass disk 13 and the slider 15 by using laser light.



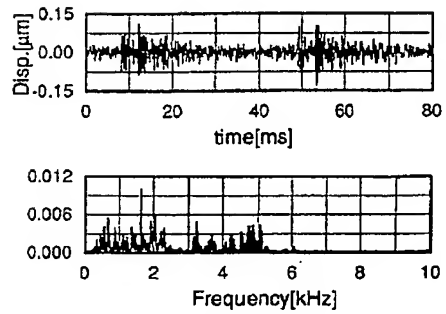
【図2】



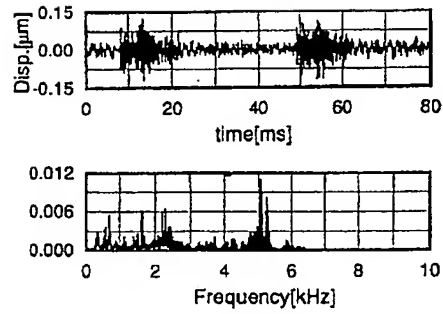
【図3】



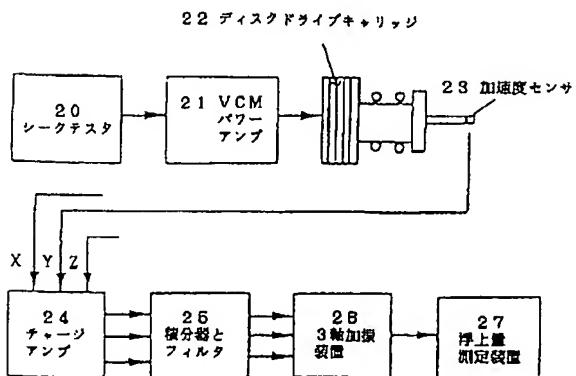
【図4】



【図5】



【図6】



【図 7】

